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Application/Control No.

10/537,380

Examiner

BAECKER ET AL.

Reexamination

Applicant(s)/Patent under

Art Unit

1772

Brent T. O'Hern

Date

Rejected Allowed

(Through numeral) Cancelled

Claim

Restricted

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Interference

**Appeal** Α

O Objected

|           |  | L                                      |                                       |   |   |              |              |  |              |              |
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| Claim     |  |  |                                       |   |   |              |              |  |              | _            |
| Cla       | ļ  |  |                                       | L   | Date  | <del>-</del> |              |  |              |              |
| _         | ā  | ဖွ                                     | 99                                    | 77  | 7   |              |              |  |              |              |
| Final     | gi   | 3/27/06                                | 8/16/06                               | 3/15/07   | 10/9/07   |              |              |  |              |              |
| ш.        | Original   | 8                                      | 8                                     | è   | 2   |              |              |  |              |              |
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|           | 1<br>2<br>3<br>4<br>5<br>6   | -                                      | ij                                    |   |   |              |              |  |              |              |
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|           | 4  | +                                      | J                                     |   |   |              |              | _  |              |              |
|           | 5  | +                                      | す                                     |   |   |              |              |  |              |              |
| <u> </u>  | 6  | +                                      | V                                     |   |   |              |              |  |              |              |
|           | 7  | ÷                                      | 1                                     | 1   | 1   |              |              |  |              |              |
|           | 8  | +                                      | 1                                     |   |   |              |              |  |              |              |
|           | 9  | +                                      | 1                                     | 1   | V   |              |              |  |              |              |
|           | 10   | ÷                                      | 1                                     | V   | V   |              |              |  |              |              |
|           | 11   | +                                      | √                                     | V   |   |              |              |  |              |              |
|           | 12   | +                                      | 1                                     |   | <u> </u>  |              |              |  |              |              |
|           | 13   | +                                      | V                                     | V   | V   |              |              | _  | L_           |              |
| L         | 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29 | +                                      | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | <br><br><br><br><br><br><br>1<br>1<br>1<br>1<br>1 | <br>\lambda<br>\lambda \lambda \lambd |              |              |  | L            | <u> </u>     |
| L         | 15   | +                                      | ١                                     | 1   | 1   | L.           | L            |  | <u> </u>     | Ш            |
|           | 16   | ļ ÷                                    | 1                                     | ļγ  | 1   | L_           | ļ            |  | <u> </u>     | Ш            |
| L         | 17   | ÷                                      | 1                                     | ٧   | <b>V</b>  |              |              |  |              |              |
| <u> </u>  | 18   | +                                      | N                                     |   |   | <u> </u>     | _            | _  | _            |              |
| <u> </u>  | 19   | +                                      | 1                                     |   | <u></u>   | _            |              |  |              |              |
|           | 20   |  |                                       |   |   | ┡            | <u> </u>     | _  | <u> </u>     | _            |
|           | 21   | <del> </del>                           |                                       | ٧   | V   | <u> </u>     | _            | <u> </u>   |              |              |
|           | 22   | -                                      | <b> </b>                              |   | N   | <u> </u>     |              |  |              | -            |
| -         | 23   |  |                                       |   | N   |              |              |  | <u> </u>     | -            |
| -         | 24   | -                                      | ├                                     |   | -   | ├            |              |  |              |              |
|           | 20   | -                                      | ├-                                    | -   | ├   |              | -            | -  | -            | -            |
|           | 27   |  | -                                     |   | ├   | -            |              | -  |              | -            |
| ·         | 28   | <u> </u>                               | <del> </del>                          | ├   | 1-  | <del> </del> |              | -  | -            |              |
| -         | 29   | 1                                      | ┢                                     | <del> </del>                                      | -   | ┢            | -            |  | -            | -            |
| <b></b>   | 30   | 1                                      |                                       | 1   | 1   | <u> </u>     | 1            | _  | <u> </u>     | 一            |
| <b>—</b>  | 30<br>31<br>32   | 1                                      | 1                                     |   | 1   |              | <u> </u>     | ·  |              |              |
|           | 32   | Π                                      |                                       |   | Π   |              |              |  |              | Π            |
|           | 33   |  |                                       |   |   |              |              |  |              |              |
|           | 34   |  |                                       |   |   |              | L.           |  |              |              |
|           | 33<br>34<br>35<br>36   |  | 1_                                    | L   | _   | ļ .          |              | L  | <u> </u>     |              |
|           | 36   |  |                                       | <u> </u>  | <u> </u>  | <u> </u>     | _            |  | <u> </u> _   | _            |
|           | 37   | <u> </u>                               | <u> </u>                              | $\vdash$  | $\perp$   | <u> </u>     |              | _  | <u> </u>     | <u> </u>     |
|           | 38   | -                                      | ↓_                                    | 1_  |   | $\vdash$     | <u> </u>     | _  | <u> </u>     | _            |
|           | 39   | ـ                                      | $\vdash$                              | $\vdash$  |   | $\vdash$     | <del> </del> | <u> </u>   | <del> </del> | -            |
|           | 40   | 1                                      | $\vdash$                              | $\vdash$  | -   | <b>├</b>     | ├            | $\vdash$   | ┡            | ⊢            |
|           | 41   | ┼-                                     | $\vdash$                              | $\vdash$  | -   | +            | ├            | $\vdash$   | -            | ├            |
| -         | 42   | +                                      | +-                                    | +   | +   | ╁            | -            | -  | $\vdash$     | <del> </del> |
|           | 43   | +                                      | +-                                    | $\vdash$  | +   | +            | 1            | $\vdash$   | ╁            | <del> </del> |
|           | 45   | +                                      | $\vdash$                              | +   | +   | +            | +            | -  | <del> </del> | +-           |
| -         | 46   | +-                                     | $\vdash$                              | $\vdash$  | +   | +            | ╁            | -  | ┼~           | <del> </del> |
| <u> </u>  | 47   | ╁                                      | $\vdash$                              | +   | +   | $\vdash$     | <del> </del> | +  | <del> </del> | $\vdash$     |
| -         | 48   | +                                      | +-                                    | +   | +-  | +-           | $\vdash$     | +  | ╁            | 1-           |
|           | 49   | +                                      | ╁                                     | $\vdash$  |   | +-           | +-           | <del>                                     </del> | 1            | +            |
|           | 50   | ╁                                      | +                                     | $\vdash$  | 1   | 1            | †-           | 1-   | 1            | $\dagger$    |
| L         | 1_00   | ــــــــــــــــــــــــــــــــــــــ |                                       |   | 1   |              | ٠            | 1  | 1            | 1            |

| Claim    |           | Date         |  |  |              |                |              |          |                |              |  |
|----------|-----------|--------------|--|--|--------------|----------------|--------------|----------|----------------|--------------|--|
| Final    | Original  |              |  |  |              |                |              |          |                |              |  |
|          | 51        |              |  | <u> </u>   |              |                |              |          | -              |              |  |
|          | 52        |              | _  | ·  |              | -              |              |          |                |              |  |
|          | 52<br>53  |              | _  |  |              |                |              |          |                |              |  |
|          | 54        |              |  |  |              |                |              |          |                |              |  |
|          | 54<br>55  |              |  |  |              |                |              |          |                |              |  |
|          | 56        |              |  |  |              |                |              |          |                |              |  |
|          | 57        |              |  |  |              |                |              |          |                |              |  |
|          | 58        |              |  |  |              |                |              |          |                |              |  |
|          | 59        |              |  |  |              | <u> </u>       | <u> </u>     |          |                |              |  |
|          | 60        |              | <u> </u>   | _  |              | L              |              |          |                |              |  |
|          | 61<br>62  |              |  |  |              | <u> </u>       |              |          |                |              |  |
|          | 62        |              | L  | _  |              | _              |              |          |                |              |  |
|          | 63        |              |  | ļ  |              |                |              | _        |                |              |  |
|          | 64        | <u> </u>     | <u> </u>   | <u> </u>   |              | <u> </u>       | <u> </u>     |          |                |              |  |
|          | 65        | <u> </u>     | <u> </u>   | ├_   | <u> </u>     | <b> </b>       | <u> </u>     |          |                | _            |  |
|          | 66        | <u> </u>     | <u> </u>   | <del> </del>                                     | <u> </u>     | <u> </u>       | <u> </u>     | $\vdash$ |                | <u> </u>     |  |
| ļ        | 67        | <del> </del> | <u> </u>   | <b> </b>   |              | <u> </u>       | ├-           | $\vdash$ | <u> </u>       | <u> </u>     |  |
| -        | 68        | ┡            | <del> </del> _                                   | -  | <u> </u>     | <del>  _</del> |              | -        | <u> </u>       | _            |  |
|          | 69<br>70  |              | <u> </u>   | ļ  | <u> </u>     | ┝              | ┡            | _        | ļ              | <u> </u>     |  |
|          | 70        | <u> </u>     |  | <del> </del>                                     | $\vdash$     | ├              |              |          | _              |              |  |
| ļ        | 71        | ├_           | Ь  | ├—   | ├            | ├              |              | -        | _              |              |  |
| <u> </u> | 72<br>73  | -            | <u> </u>   | -  | <del> </del> |                |              | _        |                |              |  |
|          | 74        | -            | -  | <del>                                     </del> | -            | ├              |              |          |                | -            |  |
|          | 75        |              | ·  | -  | -            | -              |              |          |                | -            |  |
| -        | 75<br>76  | ├-           | <del> </del>                                     |  |              |                |              |          | -              |              |  |
|          | 77        | -            |  | -  | -            | H              | ├            | -        |                |              |  |
|          | 78        |              | -  | -  | -            | ├              |              |          |                | <del> </del> |  |
|          | 78<br>79  | -            | -  | $\vdash$   | -            | ├              |              | -        | -              | -            |  |
| -        | 80        | -            |  |  | -            | -              | <del> </del> | -        | -              |              |  |
|          | 81        | <u> </u>     | -  | $\vdash$   | 1            | -              | ├─           |          | $\vdash$       | 一            |  |
|          | 82        | -            | 1  |  | Т            |                | T-           | 1        |                | <u> </u>     |  |
|          | 83        | 1            | <del>                                     </del> |  | ⇈            | T              | <b> </b>     | -        | ı              |              |  |
|          | 84        | 一            | 1  |  | 1            |                |              | $\vdash$ |                |              |  |
|          | 85        |              |  | 1  |              |                |              | Π        |                |              |  |
|          | 86        |              | 1  | Π  | Π            | Γ              |              |          |                |              |  |
|          | 87        |              |  |  |              |                |              |          |                |              |  |
|          | 88        |              |  |  |              |                |              | <u> </u> |                |              |  |
|          | 89        | L            | <u> </u>   |  | L            |                |              | <u> </u> |                |              |  |
| <u></u>  | 90        | _            | <u> </u>   | L  |              |                | <u> </u>     | <u> </u> |                |              |  |
|          | 91        | <u> </u>     | <u> </u>   | _  | _            | $oxed{oxed}$   | <u> </u>     | <u> </u> | _              | <u> </u>     |  |
|          | 92        |              | 上  | <u> </u>   | <u> </u>     | <u> </u>       | <u> </u>     | <u> </u> | ╙              | L            |  |
|          | 93        | ــــ         | ↓_   | 1_   | _            | <del> </del>   | $\vdash$     | ↓_       | <u> </u>       | _            |  |
|          | 94        | ↓_           | <del> </del>                                     | ↓_   | <del> </del> | ↓_             |              | ↓        | <u> </u>       | -            |  |
| <u> </u> | 95        | <del> </del> | 1_   | <del> </del>                                     | 1            | -              | ـــ          |          | -              | -            |  |
| <u> </u> | 96        | <del> </del> | -  | ↓_   | ╄            | ↓_             | <del> </del> | <b> </b> | -              | $\vdash$     |  |
| ļ        | 97        | -            | -  | -  | <del> </del> |                | -            | -        | -              | -            |  |
|          | 98        | -            | ╁  | ┼  | ┼            | $\vdash$       | -            | -        | <del> </del> — | -            |  |
| <u> </u> | 99<br>100 | +-           |  |  |              | $\vdash$       | -            | -        | <del> </del>   | -            |  |
| L        | 1_100     | .1           | J  |  | .l           | Ь              | 1            | 1        | .i             | <u>L.</u>    |  |

| Claim        |                   | Date         |          |                |              |                |              |              |  |  |  |
|--------------|-------------------|--------------|----------|----------------|--------------|----------------|--------------|--------------|--|--|--|
| Final        | Original          |              |          |                |              |                |              |              |  |  |  |
|              | 101               |              |          |                |              |                |              |              |  |  |  |
|              | 102               |              |          |                |              |                |              |              |  | $\sqcup$   |  |
|              | 102<br>103<br>104 |              |          |                |              |                |              |              |  |  |  |
|              | 104               |              |          | _              |              |                |              |              | _  |  |  |
|              | 105<br>106        |              |          |                |              |                |              |              |  |  |  |
|              | 106               |              |          |                |              |                |              |              |  | -  |  |
|              | 107               | _            |          | -              |              |                |              |              | -  |  |  |
|              | 108<br>109        |              |          | -              |              |                |              |              | -  |  |  |
|              | 110               |              |          | $\vdash$       |              | _              |              |              |  |  |  |
|              | 111               |              | _        |                |              | -              | $\vdash$     |              |  |  |  |
|              | 112               | $\vdash$     | $\vdash$ | -              |              | -              | -            |              | -  | $\dashv$   |  |
|              | 112<br>113        | -            |          | $\vdash$       |              |                | $\vdash$     | H            |  |  |  |
|              | 114               |              |          | $\vdash$       | $\vdash$     |                |              |              |  | Н  |  |
|              | 115               | -            | _        |                | $\vdash$     |                |              |              | Н  | $\dashv$   |  |
|              | 114<br>115<br>116 |              |          |                |              | Г              |              |              |  | $\vdash$   |  |
|              | 117               |              |          |                |              | $\Box$         |              |              |  |  |  |
|              | 118               |              |          |                |              |                |              |              |  |  |  |
|              | 119<br>120<br>121 |              |          |                |              |                |              |              |  |  |  |
|              | 120               |              |          |                | L            |                |              |              |  |  |  |
|              | 121               |              |          | <u> </u>       | <u> </u>     |                | L.           |              |  |  |  |
|              | 122               |              |          |                |              |                | ļ            |              |  |  |  |
|              | 122<br>123<br>124 |              |          |                |              | _              |              | L_           | _  |  |  |
|              | 124               | _            |          | <u> </u> _     |              |                |              |              |  |  |  |
|              | 125               | <u> </u>     |          | <u> </u>       |              |                | <u> </u>     | _            |  |  |  |
|              | 125<br>126<br>127 |              |          | -              |              | <del> </del> - |              |              | <del> </del>                                     | $\vdash$   |  |
|              | 120               | <del> </del> |          | ├              |              |                |              |              |  | Н  |  |
|              | 120               | ├—           |          | <u> </u>       |              | ├              |              |              | -  | Н  |  |
|              | 128<br>129<br>130 |              |          | ╁─             | -            | ⊢              | -            |              | -  | Н  |  |
|              | 131               | 1-           | -        | ┢╌             | ╁            | -              |              |              |  | $\vdash$   |  |
|              | 131<br>132        | 1            |          | <del>  -</del> | <del> </del> |                | Г            | -            | -  |  |  |
| <u> </u>     | 133               | ┢            |          | $\vdash$       | _            |                | $\vdash$     |              | <del>                                     </del> |  |  |
|              | 134               | <b>!</b>     | ┢        | ÍТ             |              | 1              |              |              | <del>                                     </del> |  |  |
|              | 134<br>135        |              |          |                | Γ            | $\Gamma$       |              |              |  |  |  |
|              | 136               |              |          |                |              |                |              |              |  |  |  |
|              | 137<br>138        |              |          |                |              |                | Ĺ.           | <u> </u>     | L  | Ш  |  |
|              | 138               | _            | <u> </u> | <u> </u>       | <u> </u>     | <u> </u>       | _            |              | <u> </u>   |  |  |
|              | 139               |              | <u> </u> | <u> </u>       |              | <u> </u>       | ╙            |              | ļ  | <u> </u>   |  |
| <u> </u>     | 140               | <u> </u>     | <u> </u> | <u> </u>       |              | <u> </u>       | <del> </del> | <b>├</b>     | <u> </u>   |  |  |
|              | 141               | ╄            | ├        | <del> </del>   | ├            | -              | ⊢            | ├-           | ├  |  |  |
| <del> </del> | 142               | -            | ├        | ╄              | ⊬            | <del> </del>   |              | ⊬            | $\vdash$   | $\vdash$   |  |
|              | 143               |              | -        | <del> </del>   | -            | ├-             | Ͱ            | ┢            | $\vdash$   |  |  |
| <del> </del> | 144               | ┼            | $\vdash$ | ┼              | $\vdash$     |                | $\vdash$     | $\vdash$     | $\vdash$   |  |  |
| $\vdash$     | 145               | +            | ├        | +              | $\vdash$     | $\vdash$       | -            | <del> </del> | <del> </del>                                     | t  |  |
| <u> </u>     | 147               | $t^-$        | $\vdash$ | $\vdash$       | $\vdash$     | +              | 1-           | t            | $\vdash$   | $\vdash$   |  |
|              | 148               | t            | $\vdash$ | 1              | <u> </u>     | 1              | $\vdash$     | 1            | <del>                                     </del> | <del>                                     </del> |  |
|              | 149               | 1            | 1        | Ť              | -            | 1              | T            | †            | 1  |  |  |
|              | 150               |              |          |                |              |                |              |              |  |  |  |
|              |                   |              |          |                |              |                |              |              |  |  |  |